

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number  
**WO 2005/052911 A1**

- (51) International Patent Classification<sup>7</sup>: **G10K 11/178**
- (21) International Application Number:  
PCT/DK2004/000796
- (22) International Filing Date:  
18 November 2004 (18.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
PA 2003 01744 26 November 2003 (26.11.2003) DK
- (71) Applicant (for all designated States except US): **OTICON A/S** [DK/DK]; Strandvejen 58, DK-2900 Hellerup (DK).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **OLSEN, Jes** [DK/DK]; c/o Oticon A/S, Strandvejen 58, DK-2900 Hellerup (DK).
- (74) Agent: **CHRISTENSEN, Mikael, T.**; c/o Oticon A/S, Strandvejen 58, DK-2900 Hellerup (DK).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HEARING AID WITH ACTIVE NOISE CANCELING

(57) Abstract: The invention relates to a hearing aid comprising a signal path with an input transducer, a signal processor and an output transducer, the signal processor being adapted to produce a compensation signal capable of at least partly attenuating acoustic signals bypassing the signal path and entering the ear canal.

WO 2005/052911 A1